

2009 Annual Report
Thicket of Diversity-ATBI
Big Thicket National Preserve, Texas

Aquatic True Bugs (Insecta: Heteroptera) of Big Thicket National Preserve

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2009 Field Activities

In 2009, one collecting trip of five days (16-20 June) was made to Big Thicket National Preserve for survey of aquatic true bugs (Insecta: Heteroptera). Of the 33 localities visited, sampling took place at a total of 15 sites. (Appendix 1). Sites not sampled on this trip were seasonally dry and will be visited in future trips. Additional suitable habitats will also be selected on future trips. Aquatic dip nets were used at all sites for sampling. In addition, shore bugs (Saldidae) were sampled using an aerial sweep net and aspirator at the Lakeview Sandbar locality (PPT09-019: Orange County: BITH: Beaumont Unit).

Black light and mercury vapor light trapping was conducted one evening at the Roy E. Larsen Sandylands Sanctuary (TNC and BITH) near Alligator Grass Pond. Numerous aquatic bugs and beetles were sampled, including taxa not collected from Alligator Grass Pond earlier in the day by dip net.

Approximately 1,300 specimens of aquatic true bugs (nine families) and aquatic beetles (eight families) were collected and currently under taxonomic and faunistic study in the PI's laboratory.

2009 Lab Activities

Processing and taxonomic identification of the June 2009 field trip material continues and will be completed prior to the next water bug collecting trip in late 2009. Along with identification, species pages and development of taxonomic keys for BITH aquatic true bugs has begun. All aquatic beetles will be determined to the lowest taxonomic level possible.

2009 Expenses

To date, no expenses to the PI's 2009 BITH award for aquatic true bug inventory have been incurred. The PI utilized other research funds to cover travel and supply costs for the June 2009 BITH trip. At least one trip for late calendar 2009 is planned, with which the travel and supply costs will be incurred on the PI's active ATBI-BITH award.

APPENDIX 1. Locality (site) and associated data for 16-20 June 2009 BITH water bug (Heteroptera) inventory collecting trip.

BITH Aquatic True Bug (Heteroptera) Inventory													
16-20 June 2009 Collection Sites & Data													
Paul P. Tinerella													
UTM Datum: NAD83													
Site	Country	State	County	UTM zon	UTM e	UTM n	Altitude	Locality	Date	Collector	Collection Metho	Habitat	
PPT09-012	USA	TX	Hardin Co.	15	380526	3360264	45 ft	Roy E. Larsen Sandylnd Sanctuary; TNC Property	16-VI-2009	P.P. Tinerella	none	lentic; ephemeral	
PPT09-013	USA	TX	Hardin Co.	15	354485	3349053	51 ft	Big Thicket Nat. Pres.; Lance Rosier Unit; Teel Rd.; small baygall/pond W side of road	16-VI-2009	P.P. Tinerella	dip net	lentic; pond	
PPT09-014	USA	TX	Liberty Co.	15	338949	3351550	104 ft	Big Thicket Nat. Pres.; Loblolly Unit; CR 2071; felled tree with shallow pool dip net	17-IV-2009	P.P. Tinerella	dip net	lentic; ephemeral	
PPT09-015	USA	TX	Liberty Co.	15	323693	3374326	82 ft	Big Thicket Nat. Pres.; Menard Creek Corridor Unit; bird watchers trail	17-VI-2009	P.P. Tinerella	none	lentic; ephemeral	
PPT09-016	USA	TX	Polk Co.	15	339318	3388006	208 ft	Big Thicket Nat. Pres.; Big Sandy Creek Unit; road crossing	17-VI-2009	P.P. Tinerella	dip net	lotic; stream	
PPT09-017	USA	TX	Orange Co.	15	392755	3337218	4 ft	Big Thicket Nat. Pres.; Beaumont Unit; Confluence boat ramp area	18-VI-2009	P.P. Tinerella	dip net	lentic; permanent	
PPT09-018	USA	TX	Orange Co.	15	393221	3337842	9 ft	Big Thicket Nat. Pres.; Beaumont Unit; Neches River Pine Island Bayou	18-VI-2009	P.P. Tinerella	dip net	lentic; permanent	
PPT09-019	USA	TX	Orange Co.	15	392530	3343286	9 ft	Big Thicket Nat. Pres.; Beaumont Unit; Lakeview Sandbar	18-VI-2009	P.P. Tinerella	aerial net/aspirator	river bank; sand	
PPT09-020	USA	TX	Hardin Co.	15	392926	3371594	36 ft	Big Thicket Nat. Pres.; Neches Bottom and Jack Gore Baygall Unit; Franklin Lake	18-VI-2009	P.P. Tinerella	dip net	lentic; cypress swamp	
PPT09-021	USA	TX	Hardin Co.	15	392803	3366747	-4 ft	Big Thicket Nat. Pres.; Neches Bottom and Jack Gore Baygall Unit; "County Park" on NPS BITH map	18-VI-2009	P.P. Tinerella	none	dried lentic pools	
PPT09-022	USA	TX	Hardin Co.	15	388177	3372419	26 ft	Big Thicket Nat. Pres.; Young Blood Road through W side (WSW) of Neches Bottom Unit	18-VI-2009	P.P. Tinerella	none	dried lentic	
PPT09-023	USA	TX	Hardin Co.	15	391773	3374269	14 ft	Big Thicket Nat. Pres.; Neches Bottom and Jack Gore Baygall Unit; cypress swamp	18-VI-2009	P.P. Tinerella	none	dried lentic	
PPT09-024	USA	TX	Hardin Co.	15	396270	3375036	15 ft	Big Thicket Nat. Pres.; Neches Bottom and Jack Gore Baygall Unit; Timber Slough Road	18-VI-2009	P.P. Tinerella	none	dried lentic	
PPT09-025	USA	TX	Hardin Co.	15	394349	3374283	45 ft	Big Thicket Nat. Pres.; Neches Bottom and Jack Gore Baygall Unit; slough (cypress swamp) across Timber Slough Road	18-VI-2009	P.P. Tinerella	dip net	lotic; stream	
PPT09-026	USA	TX	Hardin Co.	15	370729	3371795	100 ft	Big Thicket Nat. Pres.; Turkey Creek Unit; small oxbow (drying) shallow with LOTS of diversity	19-VI-2009	P.P. Tinerella	dip net	lentic; oxbow; drying	
PPT09-027	USA	TX	Tyler Co.	15	371838	3384132	120 ft	Big Thicket Nat. Pres.; Turkey Creek Unit; Pitcher Plant Trail	19-VI-2009	P.P. Tinerella	none	dried lentic	
PPT09-028	USA	TX	Tyler Co.	15	372153	3381778	119 ft	Big Thicket Nat. Pres.; Turkey Creek Unit; Battery Pond	19-VI-2009	P.P. Tinerella	none	dried lentic	
PPT09-029	USA	TX	Tyler Co.	15	372186	3380602	120 ft	Big Thicket Nat. Pres.; Turkey Creek Unit; Turkey Creek at road crossing	19-VI-2009	P.P. Tinerella	dip net	lotic; stream	
PPT09-030	USA	TX	Tyler Co.	15	371871	3384894	138 ft	Big Thicket Nat. Pres.; Turkey Creek Unit; roadside cattails and pond complex	19-VI-2009	P.P. Tinerella	none	dried lentic	
PPT09-031	USA	TX	Tyler Co.	15	369908	3388261	151 ft	Big Thicket Nat. Pres.; Turkey Creek Unit; Turkey Creek; north boundary of unit- sample S side of bridge	19-VI-2009	P.P. Tinerella	dip net	lotic; stream	
PPT09-032	USA	TX	Tyler Co.	15	364791	3380393	84 ft	Big Thicket Nat. Pres. Hickory Creek Savannah Unit; Sundew Trail	19-VI-2009	P.P. Tinerella	none	dried lentic	
PPT09-033	USA	TX	Hardin Co.	15	379270	3362299	36 ft	Big Thicket Nat. Pres. and TNC Roy E. Larsen Sandylnd Sanctuary; near Alligator Grass Pond; large old oxbow Light tr	19-VI-2009	P.P. Tinerella	Hg/UV Lt Trp	pine savanna	
PPT09-034	USA	TX	Hardin Co.	15	379323	3362208	55 ft	Big Thicket Nat. Pres. and Roy E. Larsen Sandylnd Sanctuary; Alligator Grass Pond	20-VI-2009	P.P. Tinerella	dip net	lentic; oxbow; permanent	
PPT09-035	USA	TX	Hardin Co.	15	379310	3362134	52 ft	Big Thicket Nat. Pres. and Roy E. Larsen Sandylnd Sanctuary; Alligator Grass Pond- II: lily pads	20-VI-2009	P.P. Tinerella	dip net	lentic; oxbow; permanent	
PPT09-036	USA	TX	Tyler Co.	15	383228	3399901	206 ft	Big Thicket Nat. Pres. Beech Creek Unit; Beech Woods Trail intermittent stream crossing old road (trail)	20-VI-2009	P.P. Tinerella	dip net	lotic; stream; drying	
PPT09-037	USA	TX	Tyler Co.	15	385156	3398000	127 ft	Big Thicket Nat. Pres. Beech Creek Unit; Moss Bridge Road x Little Beech Creek	20-VI-2009	P.P. Tinerella	none	dried lentic	